



N CONGESTION



Seventh Month Fœtus about 35 centimetres (14 inches) in length—weight about 40 ounces. The increase of fat in the subcutaneous areolar tissue produces a greater plumpness, although the skin is still wrinkled, of a red color and covered with sebaceous material. Eyelids are now permanently open. Child born at this stage makes slight movements and cries feebly, but will die in the course of a few hours or days.

Eighth Month Fætus about 40 centimetres (16 inches) in length—weight about 3½ lbs. Lanugo hair begins to disappear—skin assumes more nearly a flesh-color. Navel situated near middle of body—free margin of nails does not yet reach the tips of fingers. Hair of head becomes thicker. *Child born at this period may, with great care, be kept alive.

Dinth Month Length of Fœtus 16½ to 17½ inches—weight about 4 lbs. Body loses its wrinkled appearance and becomes more rounded. Face loses senile and wrinkled aspect. Children born at this stage may live. They are not as energetic as if born at full term, sleep greater part of time, and unless they receive careful attention are prone to die.

th month or Full Cerm Average length, 20 to 21 inches. Average weight, about 7 lbs. These averages are, however, liable to great variation, children weighing little more than I pound at birth having lived, and authenticated cases of over 20 pounds weight at birth are recorded. Body is well rounded—skin has lost its deep-red color—lanugo mostly disappeared. Nails project beyond finger tips. Skin covered with sebaceous scum. Testes have descended into the scrotum—latra majora in contact. Child cries soon after being born, freely moves its limbs and nurses when put to breast.

Antikamnia Parturition Cables

The upper figures in each of the following tables indicate the supposed time of impregnation. approximate date of delivery. Example: Date of Impregnation January 1st.

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The lower figures give



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Che Antikamnia Fætation and Parturition Chart.

By Louis Crusius, A.M., M.D.

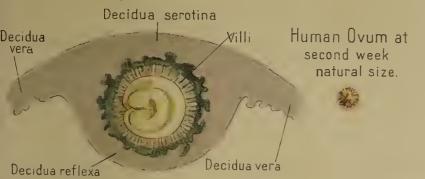
The duration of pregnancy from the fertilization of the ovum until the delivery at full term, is 280 days. This period is divided either into 10 months of 28 days each—a lunar month—or into 9 calendar months.

The physician is frequently called upon to judge the age of a prematurely expelled embryo or fœtus. To enable him to do this approximately, without consulting a vast amount of literature on the subject, the following particulars concerning the important and characteristic changes taking place in each month, will form a guide to the formation of an opinion.

First Week During the first week the ovum remains in the Fallopian tube. Having entered the upper part of the tube and become impregnated, it slowly moves down, in the meanwhile beginning its process of repeated division or cleavage, known as the "segmentation of the ovum."

Human Ovum at second week. (magnified)

The ovum when first entering the tube measures about $\frac{1}{125}$ th of an inch, but in its downward passage through the Fallopian tube it increases in size to from $\frac{1}{50}$ th to $\frac{1}{25}$ th of an inch.



Second Week At about the 8th day the ovum reaches the uterus, where it adheres to the modified mucosa usually upon the posterior wall of the uterus. A portion of the mucosa grows up around the ovum, which is called the *decidua reflexa*. That portion of the mucous membrane upon which the ovum attaches itself is known as the *decidua serotina* and the remaining portion of the mucosa constitutes the *decidua vera*. At 12 to 14 days the ovum is a rounded, somewhat flattened sac

Decidua Villi
Amnion Forebrain Chorion

Wid-brain Hind-brain

Forebrain Primitive
Segments

Amnion

(a) natural size

Mid-brain Hind-brain

Hind-brain

Fore
Amnion

Mavel

Amnion

Mavel

Amnion

(b.) magnified

from 3 to 5 millimetres in diameter, smooth, except at the equatorial zone, where a number of short unbranched villimake their appearance. The ovum is surrounded completely by the decidua reflexa and serotina. At the end of the second week the amnion, all antois and first rudiments of the embryo appear. The entire ovum now measures about ‡ of an inch and the embryo ½ inch.

Human Embryo at three weeks.

Chird Week The entire ovum is covered by villi, which now begin to branch and increase in length. The allantois reaches the chorion—the embryo measures about \(\frac{1}{6} \) inch—and presents as characteristic features: a strongly curved back—primary divisions of brain—appearance of visceral arches—rudiments of primitive ocular and auditory vesicles. The primary circulation is established—the alimentary canal presents a straight tube—the mouth appears as a five-sided orifice.

Fourth Week or End of First Month The entire ovum is about the size of a

pigeon's egg, measuring about $\frac{3}{4}$ of an inch in its greatest diameter, and weighing in the neighborhood of 40 grains. The entire chorion is covered by villi. The umbilical vesicle is fully developed. The embryo measures about $\frac{1}{3}$ of an inch in length and resembles a small thick worm curled up.

While in the previous week the embryo was still erect, it now is flexed to such an extent that the head and tail meet and the outline of the back resembles a circle.

The eyes appear as two black dots and the limbs are indicated by two pairs of bud-like processes.

The caudal extremity projects as a free tail and upon the back on each side of the median line are mapped out the provertebræ, a series of quadrilateral areas.

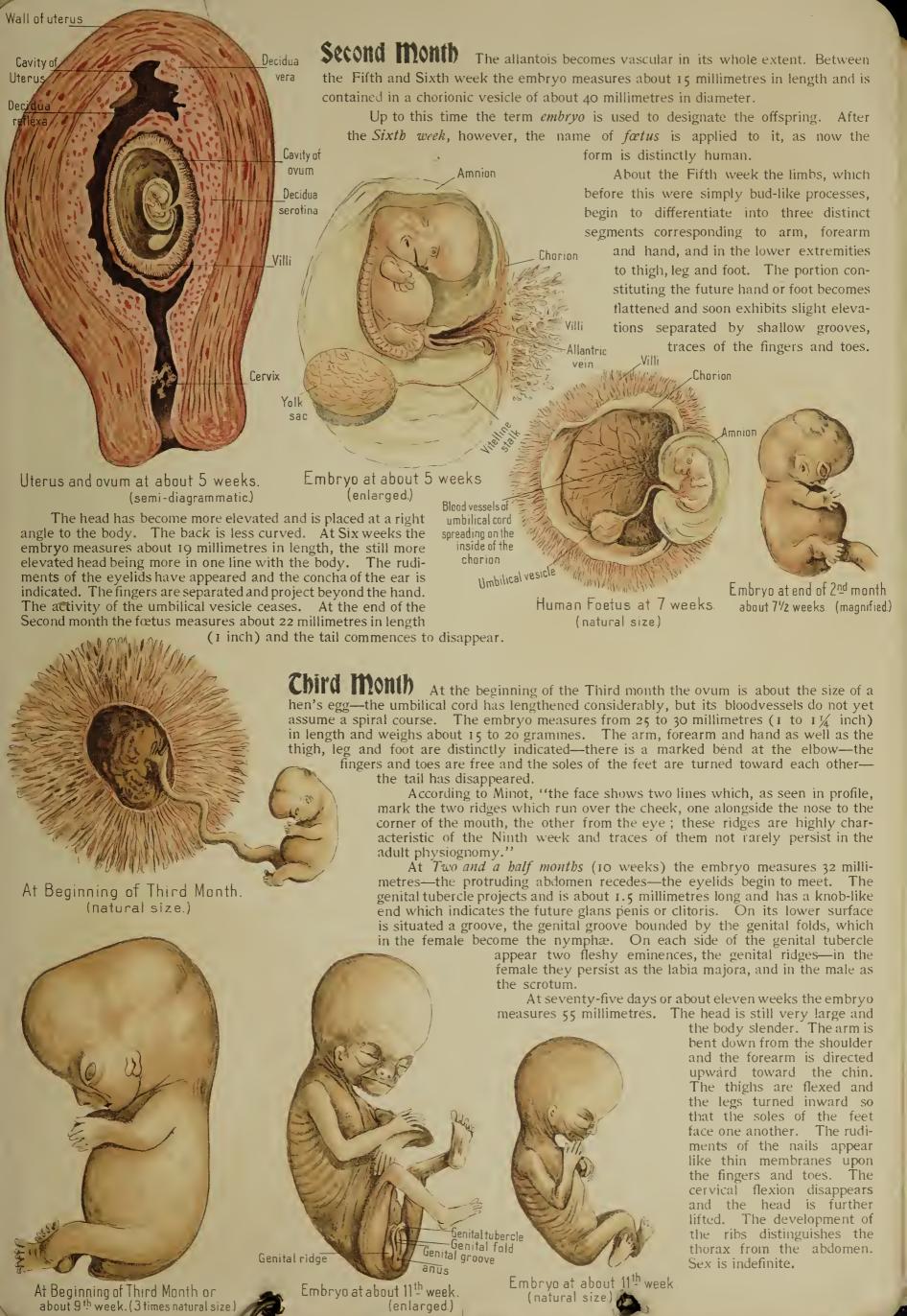


Human Embryo at Fourth Week (natural size)



Human Embryo at Fourth Week (magnified.)



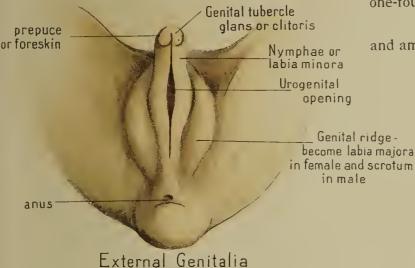




Amnion

Villi
forming
placenta.

Foetus at 12th week, within the amnion (natural size.)



(enlarged.)

End of Chird Month (Eighty-four days.) Embryo measures 75 to 80 millimetres or about 3 inches. The ovum about 4 inches in length. Weight about 4 ounces.

The placenta is distinctly formed and isolated, the chorion having lost its villosities in a great measure. The cord has lengthened and now forms spiral turns. The umbilical vesicle and the allantois have disappeared.

The genital tubercle (which forms the penis or the clitoris) is the same in the female as in the male. The glans measures about I millimetre and the genital folds (nymphæ) about 3 millimetres. The genital or urethral groove is open. The eyelids unite. The nose is broad and triangular shaped—the lips thick and the chin pointed.

At no other age miscarriages occur so frequently as at 3 months.

The accompanying sketch represents the natural attitude when in the uterus confined within its membranes. Toward the end of the fourth month the placenta has increased in size and thickness. The umbilical cord measures about 2 or 3 times the length of the fœtus and has thickened considerably from the formation of Wharton's jelly. The fœtus measures about 125 millimetres or 5 inches and weighs about 230 to 240 grammes (7¾ oz.)—the head being about one-fourth of the length of the body.

Mouth, eyes, ears and nose assume their proper shape. The chorion and amnion unite.



Human Embryo at end of 4th month.

The sex can now be readily distinguished. In both sexes the genital ridges have increased in size—in the male the two opposite ridges have met and united to form the scrotum, a slight ridge, the raphe, marks the line of junction which persists in the adult. The glans penis and prepuce are formed, and the urethral or genital groove extends into the glans, its borders (genital folds) uniting to form the stalk of the penis. In the female the genital ridges are but slightly modified; they constitute the labia majora—the genital tubercle forms the clitoris covered by the prepuce. The borders of the urethral groove (genital folds) do not unite as in the male, but remain as elevated ridges to form the labia minora or nymphæ.

In the subcutaneous areolar tissue fat cells develop.

External genital organs of human fetus- at 4 th month. (magnified - semi diagrammatic.) female Indifferent type. (3rd month.) male Raphe Perineum (6) 4 Genital groove — 5 Prepuce —— 6 Anus —— 1 Genital tubercle — Glans penis — Clitoris 2 Genital ridge — Scrotum — Labia ma 3 Genital fold — Penis — Labia ma Urethra Scrotum — Labia majora Penis — Labia minora Prepuce --Prepuce Anus Anus



